

| L Number | Hits | Search Text | DB | Time stamp |
|----------|---------|---|---|------------------|
| 45 | 2 | 5561737.PN. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/28 01:36 |
| - | 29 | "bernardi, robert".in. "burson, steven".in. "gollbach, lawrence".in. "woo, allen".in. "bobisuthi, james".in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 10:20 |
| - | 7 | ("3057960" "3109066" "5511128" "5586191" "5978490" "6005953" "6272229").PN. | USPAT | 2004/05/28 12:58 |
| - | 10 | ("4354059" "4393275" "4412097" "4589136" "4741038" "4752961" "4870690" "4941187" "5214709" "5303307").PN. | USPAT | 2004/05/28 13:03 |
| - | 4 | ("5208864" "5414776" "5602962" "5673327").PN. | USPAT | 2004/05/28 13:12 |
| - | 1411669 | envelope integrat\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 13:23 |
| - | 126 | 381/92.ccls. and (envelope integrat\$3) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 18:16 |
| - | 171614 | envelope | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 13:24 |
| - | 28 | 381/92.ccls. and envelope | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 13:49 |
| - | 12598 | envelope near2 detect\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 13:24 |
| - | 3 | 381/92.ccls. and (envelope near2 detect\$3) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 13:31 |
| - | 988296 | averag\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 13:31 |
| - | 103 | 381/92.ccls. and averag\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 13:32 |
| - | 3723302 | amplitude level magnitude volume | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 13:32 |
| - | 112087 | averag\$3 with (amplitude level magnitude volume) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 13:33 |
| - | 27 | 381/92.ccls. and (averag\$3 with (amplitude level magnitude volume)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:13 |

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|---|---------|--|---|------------------|
| - | 3525 | direction\$4 near3 (microphone input near2 transducer) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:14 |
| - | 43 | (envelope near2 detect\$3) and (direction\$4 near3 (microphone input near2 transducer)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:28 |
| - | 21636 | omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:36 |
| - | 4093212 | uni adj direction\$4 unidirection\$4 direction\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:31 |
| - | 4104026 | (omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) ith (uni adj direction\$4 unidirection\$4 direction\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:32 |
| - | 119 | cardiod | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:33 |
| - | 1221 | cardiod cardioid | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:33 |
| - | 4093486 | uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:35 |
| - | 13455 | (omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) with ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 16:40 |
| - | 2231591 | switch\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:36 |
| - | 466 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) with ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid))) with switch\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 16:40 |
| - | 106060 | microphon\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:37 |
| - | 101 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) with ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid))) with switch\$3) and microphon\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:46 |
| - | 108 | 381/94.7.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:20 |
| - | 1278574 | integrat\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:47 |

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| - | 107 | 381/92.ccls. and Integrat\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:48 |
| - | 99705 | absolute adj value | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:48 |
| - | 307423 | absolute adj value rectif\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:08 |
| - | 18 | 381/92.ccls. and Integrat\$4 and (absolute adj value rectif\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:57 |
| - | 254120 | (proper\$2 correct\$2) near2 position\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:10 |
| - | 189 | ((proper\$2 correct\$2) near2 position\$3) with microphon\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:58 |
| - | 14 | ((proper\$2 correct\$2) near2 position\$3) with microphon\$3) and LED | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:58 |
| - | 6 | 4777649.URPN. | USPAT | 2004/05/28 15:00 |
| - | 8176 | averag\$3 with (absolute adj value rectif\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:09 |
| - | 450 | (averag\$3 with (absolute adj value rectif\$4)) and microphon\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:09 |
| - | 567 | ((proper\$2 correct\$2) near2 position\$3) and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:11 |
| - | 302 | ((proper\$2 correct\$2) near2 position\$3) and 381/\$.ccls. and microphon\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:11 |
| - | 31054 | ((proper\$2 correct\$2) near2 position\$3) with 96and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:11 |
| - | 0 | ((proper\$2 correct\$2) near2 position\$3) with (averag\$3 with (absolute adj value rectif\$4)) and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:12 |
| - | 80 | ((proper\$2 correct\$2) near2 position\$3) with microphon\$3 and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:29 |
| - | 3 | 4445229.URPN. | USPAT | 2004/05/28 15:14 |
| - | 6 | 4777649.URPN. | USPAT | 2004/05/28 15:23 |

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|---|-------|---|---|------------------|
| - | 17 | ("3109893" "4644107" "4777649" "4901354" "5007081" "5224151" "5255341" "5335276" "5337353" "5396443" "5657380" "5712911" "5806036" "5881377" "5890123" "6188986" "6243683").PN. | USPAT | 2004/05/28 15:24 |
| - | 203 | 379/441.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:29 |
| - | 78 | 379/441.ccls. and position\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:30 |
| - | 12 | 379/441.ccls. and position\$4 with indicat\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 16:01 |
| - | 376 | 379/396.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 16:01 |
| - | 159 | 379/396.ccls. and (LED position\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 16:02 |
| - | 105 | 379/396.ccls. and (position\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 16:02 |
| - | 3 | ("5528663" "5950139" "6023779").PN. | USPAT | 2004/05/28 16:05 |
| - | 252 | microphone near2 align\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 16:35 |
| - | 6 | ("1892644" "1892646" "2836656" "3057960" "3794766" "4061041").PN. | USPAT | 2004/06/01 12:30 |
| - | 10231 | "david, e".in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/01 12:33 |
| - | 13681 | "david, e".in. @ad<19620101 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/01 12:34 |
| - | 3 | "david, e".in. and @ad<19620101 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/01 12:35 |
| - | 1 | 859684.apn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/01 12:35 |
| - | 0 | "david, jr., e".in. and @ad<19620101 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/01 12:36 |
| - | 1 | "david, jr".in. and @ad<19620101 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/01 12:36 |

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| - | 1 | "david jr edward".ln. and @ad<19620101 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/01 15:03 |
| - | 9 | 3057960.URPN. | USPAT | 2004/06/01 12:39 |
| - | 7 | ("3057960" "3109066" "5511128" "5586191" "5978490" "6005953" "6272229").PN. | USPAT | 2004/06/01 12:40 |
| - | 7 | ("3057960" "3109066" "5511128" "5586191" "5978490" "6005953" "6272229").PN. | USPAT | 2004/06/01 14:31 |
| - | 2 | de-19818611\$.did. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/01 15:57 |
| - | 2 | wo-9846043\$.did. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/01 15:57 |
| - | 4 | 4236040.URPN. | USPAT | 2004/06/01 16:24 |
| - | 7 | ("5051964" "5465302" "5715319" "5778083" "5787183" "6243471" "6317501").PN. | USPAT | 2004/06/01 17:03 |
| - | 1 | 6148077.URPN. | USPAT | 2004/06/02 10:06 |
| - | 3 | ("5528663" "5950139" "6023779").PN. | USPAT | 2004/06/02 10:07 |
| - | 6 | 4777649.URPN. | USPAT | 2004/06/02 14:02 |
| - | 375 | 381/92.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 16:16 |
| - | 391 | microphone near2 (orient\$5) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 16:36 |
| - | 116 | microphone near2 (orient\$5) with (\$4speaker source mouth nose) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 16:38 |
| - | 5 | ("5001746" "5134649" "5995599" "6102856" "6219408").PN. | USPAT | 2004/06/02 16:41 |
| - | 8 | ("2184247" "2301744" "2305599" "2396222" "3403223" "3573399" "3876947" "3881177").PN. | USPAT | 2004/06/02 16:58 |
| - | 4 | ("4006310" "5473701" "5586191" "5740256").PN. | USPAT | 2004/06/02 17:08 |
| - | 10 | ("4354059" "4393275" "4412097" "4589136" "4741038" "4752961" "4870690" "4941187" "5214709" "5303307").PN. | USPAT | 2004/06/02 17:08 |
| - | 4 | ("5208864" "5414776" "5602962" "5673327").PN. | USPAT | 2004/06/02 17:12 |
| - | 7 | ("3057960" "3109066" "5511128" "5586191" "5978490" "6005953" "6272229").PN. | USPAT | 2004/06/02 17:15 |
| - | 7 | ("4354059" "4472742" "4550343" "4764817" "4862278" "5062010" "5193117").PN. | USPAT | 2004/06/02 17:18 |
| - | 204 | 381/122.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:20 |
| - | 7795 | 381/\$.ccls. and direction\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:31 |

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|---|---------|--|---|------------------|
| - | 14 | elko.in. and omnidirectional | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:32 |
| - | 21664 | omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 15:49 |
| - | 139821 | phase near2 shift\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:37 |
| - | 2289 | (omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and (phase near2 shift\$3) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:37 |
| - | 242221 | noise adj (attenuat\$4 cancel\$3 cancell\$5) directional | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:38 |
| - | 246323 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and (phase near2 shift\$3)) abd (noise adj (attenuat\$4 cancel\$3 cancell\$5) directional) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:38 |
| - | 1719 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and (phase near2 shift\$3)) and (noise adj (attenuat\$4 cancel\$3 cancell\$5) directional) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:38 |
| - | 1701389 | subtract\$4 difference | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:38 |
| - | 1270 | ((((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and (phase near2 shift\$3)) and (noise adj (attenuat\$4 cancel\$3 cancell\$5) directional)) and (subtract\$4 difference)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:38 |
| - | 31070 | 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:39 |
| - | 121 | (((((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and (phase near2 shift\$3)) and (noise adj (attenuat\$4 cancel\$3 cancell\$5) directional)) and (subtract\$4 difference)) and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:43 |
| - | 117230 | microphon\$4 input near2 transduc\$34 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:43 |
| - | 93 | (((((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and (phase near2 shift\$3)) and (noise adj (attenuat\$4 cancel\$3 cancell\$5) directional)) and (subtract\$4 difference)) and 381/\$.ccls.) and (microphon\$4 input near2 transduc\$34) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:45 |
| - | 1745 | (multi multiple) adj ((level near2 compar\$4) (threshold threshold thresh adj hold)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:47 |

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|---|--------|---|---|------------------|
| - | 0 | (((((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and (phase near2 shift\$3)) and (noise adj (attenuat\$4 cancel\$3 cancel\$5) directional)) and (subtract\$4 difference)) and 381/\$.ccls.) and (microphon\$4 input near2 transduc\$34)) and ((multi multiple) adj ((level near2 compar\$4) (threshold threshold thresh adj hold))) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:47 |
| - | 3 | ((multi multiple) adj ((level near2 compar\$4) (threshold threshold thresh adj hold))) and ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and (phase near2 shift\$3)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:49 |
| - | 9 | ((multi multiple) adj ((level near2 compar\$4) (threshold threshold thresh adj hold))) and (omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:59 |
| - | 2 | 4,066,842.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/04 10:19 |
| - | 14 | 4066842.URPN. | USPAT | 2004/06/02 18:00 |
| - | 3 | ("4025894" "4485484" "4536887").PN. | USPAT | 2004/06/02 18:02 |
| - | 2 | ("2982942" "4466117").PN. | USPAT | 2004/06/02 18:05 |
| - | 2 | ("2982942" "4466117").PN. | USPAT | 2004/06/02 18:05 |
| - | 19 | 4712244.URPN. | USPAT | 2004/06/02 18:05 |
| - | 9 | ("4308425" "4466117" "4696043" "4703506" "4712244" "4742548" "5029215" "5058170" "5121426").PN. | USPAT | 2004/06/02 18:11 |
| - | 4 | 5463694.URPN. | USPAT | 2004/06/02 18:13 |
| - | 18 | 5226087.URPN. | USPAT | 2004/06/04 09:18 |
| - | 19 | ("3571514" "3770911" "3798390" "3836732" "3875349" "3946168" "3975599" "4051330" "4142072" "4456795" "4622440" "4712244" "4723293" "4751738" "5029215" "5214709" "5226087" "5289544" "5524056").PN. | USPAT | 2004/06/04 13:25 |
| - | 15 | 3975599.URPN. | USPAT | 2004/06/04 14:10 |
| - | 10 | 5673325.URPN. | USPAT | 2004/06/04 14:38 |
| - | 27 | "andrea, douglas".in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/04 14:58 |
| - | 336 | directional same handset | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/04 14:58 |
| - | 60 | (omni non) adj directional same handset | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/04 14:58 |
| - | 159177 | (shift\$3 adjust\$3) near2 phase | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/04 14:59 |
| - | 3 | ((omni non) adj directional same handset) and ((shift\$3 adjust\$3) near2 phase) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/04 14:59 |
| - | 24625 | (shift\$3 adjust\$3) near2 phase with second | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/04 15:00 |

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| - | 7 | (directional same handset) and ((shift\$3 adjust\$3) near2 phase with second) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/04 15:00 |
| - | 3 | ("3170046" "4672674" "5138664").PN. | USPAT | 2004/06/04 15:06 |
| - | 35 | 4672674.URPN. | USPAT | 2004/06/04 15:08 |
| - | 26 | 5381473.URPN. | USPAT | 2004/06/04 15:09 |
| - | 17 | 5381473.URPN. and phase | USPAT | 2004/06/04 15:20 |
| - | 7 | ("4584702" "4773091" "4850016" "5239578" "5260998" "5341420" "5381473").PN. | USPAT | 2004/06/04 15:14 |
| - | 5 | 5473684.URPN. | USPAT | 2004/06/04 15:15 |
| - | 4 | ("5381473" "5452361" "5473684" "5473702").PN. | USPAT | 2004/06/04 15:16 |
| - | 0 | direction same handset | USPAT | 2004/06/04 15:20 |
| - | 874 | direction same handset | USPAT | 2004/06/04 15:26 |
| - | 1 | "4354059".PN. | USPAT | 2004/06/04 15:21 |
| - | 16 | 4354059.URPN. | USPAT | 2004/06/04 15:22 |
| - | 9 | ("4354059" "4393275" "4412097" "4589136" "4741038" "4752961" "4870690" "4941187" "5214709").PN. | USPAT | 2004/06/04 15:25 |
| - | 19 | directional adj microphone same handset | USPAT | 2004/06/04 15:48 |
| - | 19 | ("3571514" "3770911" "3798390" "3836732" "3875349" "3946168" "3975599" "4051330" "4142072" "4456795" "4622440" "4712244" "4723293" "4751738" "5029215" "5214709" "5226087" "5289544" "5524056").PN. | USPAT | 2004/06/04 15:46 |
| - | 17 | 3770911.URPN. | USPAT | 2004/06/04 15:47 |
| - | 24 | ("3770911" "3798390" "3835263" "3836732" "3870820" "3876843" "3909556" "4051330" "4142072" "4174469" "4456795" "4629833" "4852177" "5033090" "5068901" "5101435" "5201006" "5222050" "5319717" "5524056" "5535282" "5579398" "6122389" "6151399").PN. | USPAT | 2004/06/04 15:48 |
| - | 2213 | directional with (non adj directional nondirectional) | USPAT | 2004/06/04 15:50 |
| - | 33450 | automatic\$4 near2 switch\$3 | USPAT | 2004/06/04 15:50 |
| - | 153 | directional with (nondirectional) | USPAT | 2004/06/04 15:50 |
| - | 4 | (automatic\$4 near2 switch\$3) and (directional with (nondirectional)) | USPAT | 2004/06/04 15:52 |
| - | 60 | (directional with (non adj directional nondirectional)) and (automatic\$4 near2 switch\$3) | USPAT | 2004/06/04 15:52 |
| - | 3 | (directional with (non adj directional nondirectional)) same (automatic\$4 near2 switch\$3) | USPAT | 2004/06/04 15:56 |
| - | 129 | 381/313.ccls. | USPAT | 2004/06/04 15:56 |
| - | 6 | (automatic\$4 near2 switch\$3) and 381/313.ccls. | USPAT | 2004/06/04 16:31 |
| - | 3 | 6389142.URPN. | USPAT | 2004/06/04 16:25 |
| - | 12 | ("4399327" "4703506" "5033090" "5121426" "5128566" "5214709" "5463694" "5483599" "5524056" "5757933" "6339647" "6389142").PN. | USPAT | 2004/06/04 16:26 |
| - | 2 | ("5305004" "5946402").PN. | USPAT | 2004/06/04 16:28 |
| - | 0 | ep-820210-\$.did. | USPAT | 2004/06/04 16:31 |
| - | 0 | ep-0820210-\$.did. | USPAT | 2004/06/04 16:36 |
| - | 95 | adaptive adj beam adj form\$3 | USPAT | 2004/06/04 16:39 |
| - | 1 | 5539859.pn. | USPAT | 2004/06/04 18:00 |
| - | 13 | ("4112430" "4333170" "4653102" "4912767" "4918732" "4932063" "5208864" "5212764" "5214707" "5293450" "5319736" "5390280" "5400409").PN. | USPAT | 2004/06/04 16:51 |

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| - | 13 | ("4112430" "4333170" "4653102" "4912767" "4918732" "4932063" "5208864" "5212764" "5214707" "5293450" "5319736" "5390280" "5400409").PN. | USPAT | 2004/06/04 17:18 |
| - | 5 | ("4594695" "4625083" "4630305" "4649505" "4737976").PN. | USPAT | 2004/06/04 17:25 |
| - | 9 | 5539859.URPN. | USPAT | 2004/06/04 17:26 |
| - | 19 | ("4630305" "5319736" "5335312" "5418857" "5473701" "5475761" "5539859" "5602962" "5610991" "5668747" "5680393" "5740256" "5742927" "5839101" "5903819" "5907624" "5953381" "5974373" "6175602").PN. | USPAT USPAT | 2004/06/04 17:29 |
| - | 19 | ("4521908" "4653102" "4703506" "4712244" "4712247" "4720712" "4741038" "4802227" "5193117" "5226087" "5233664" "5243660" "5260920" "5291556" "5301363" "5327143" "5347586" "5367506" "5581036").PN. | USPAT | 2004/06/04 17:52 |
| - | 13 | ("4112430" "4333170" "4653102" "4912767" "4918732" "4932063" "5208864" "5212764" "5214707" "5293450" "5319736" "5390280" "5400409").PN. | USPAT | 2004/06/04 17:59 |
| - | 21410 | angle adj incidence | USPAT | 2004/06/04 18:01 |
| - | 198969 | compar\$4 with (level amplitude power) | USPAT | 2004/06/04 18:01 |
| - | 2119 | (angle adj incidence) and (compar\$4 with (level amplitude power)) | USPAT | 2004/06/04 18:01 |
| - | 42034 | microphone input adj transducer | USPAT | 2004/06/04 18:01 |
| - | 76 | ((angle adj incidence) and (compar\$4 with (level amplitude power))) and (microphone input adj transducer) | USPAT | 2004/06/04 18:24 |
| - | 2 | ("4489442" "4658425").PN. | USPAT | 2004/06/04 18:06 |
| - | 27 | 4489442.URPN. | USPAT | 2004/06/04 18:06 |
| - | 5 | ("3940575" "3992584" "4489442" "4567608" "4817168").PN. | USPAT | 2004/06/04 18:12 |
| - | 8 | ("5400409" "5539859" "5581620" "5627799" "5754665" "5825898" "5917921" "6178248").PN. | USPAT | 2004/06/04 18:17 |
| - | 180405 | (angle direction) with (source input) | USPAT | 2004/06/04 18:24 |
| - | 952 | (compar\$4 with (level amplitude power)) and (microphone input adj transducer) and ((angle direction) with (source input)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/04 18:25 |
| - | 31090 | 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/04 18:25 |
| - | 162 | ((compar\$4 with (level amplitude power)) and (microphone input adj transducer) and ((angle direction) with (source input))) and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 13:17 |
| - | 4 | ("5572591" "5680467" "5757933" "6539096").PN. | USPAT | 2004/06/04 18:26 |
| - | 16014 | difference with (first and second front and back) with (levels volume amplitude) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/04 18:34 |
| - | 2 | ("4489442" "4658425").PN. | USPAT | 2004/06/04 18:42 |
| - | 19 | 4752961.URPN. | USPAT | 2004/06/05 13:10 |
| - | 27 | ((compar\$4 with (level amplitude power)) with ((angle direction) with (source input))) and (microphone input adj transducer) and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 13:18 |
| - | 4 | ("4006310" "5473701" "5586191" "5740256").PN. | USPAT | 2004/06/05 13:29 |

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| - | 6 | ("4485484" "4536887" "4653102" "4802227" "4956867" "5267320").PN. | USPAT | 2004/06/05 13:45 |
| - | 7 | ("3440350" "3662108" "4063031" "4485484" "4536887" "4559642" "4589137").PN. | USPAT | 2004/06/05 13:45 |
| - | 19 | 5473701.URPN. | USPAT | 2004/06/05 13:46 |
| - | 9 | ("4594695" "5418857" "5473701" "5475761" "5668747" "5680393" "5740256" "5742927" "5903819").PN. | USPAT | 2004/06/05 13:47 |
| - | 16 | ("4223400" "4334740" "4354059" "4466117" "4703506" "5029215" "5193117" "5206910" "5214709" "5226087" "5303307" "5400409" "5471538" "5473701" "5477270" "5483599").PN. | USPAT | 2004/06/05 13:51 |
| - | 1 | "4354059".PN. | USPAT | 2004/06/05 14:04 |
| - | 18 | 5226087.URPN. | USPAT | 2004/06/05 14:04 |
| - | 9 | 5539859.URPN. | USPAT | 2004/06/05 14:22 |
| - | 560 | 375/349.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 14:26 |
| - | 560 | 375/349.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 14:25 |
| - | 187 | 375/349.ccls. and (direction angle) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 14:26 |
| - | 28 | 375/349.ccls. and (direction angle) and (compar\$3 with (level amplitude volume)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 14:29 |
| - | 376 | 381/92.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 14:36 |
| - | 2 | 6193134.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 14:37 |
| - | 2 | 6193234.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 14:37 |
| - | 2 | 6192134.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 14:39 |
| - | 2 | 5475195.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 14:39 |
| - | 2 | 5471195.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 14:39 |
| - | 267 | 381/92.ccls. and (angle direction) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 15:15 |
| - | 7 | ("4584702" "4773091" "4850016" "5239578" "5260998" "5341420" "5381473").PN. | USPAT | 2004/06/05 14:57 |

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| - | 12 | 5341420.URPN. | USPAT | 2004/06/05 14:58 |
| - | 16 | "roeck, hans-ueli".in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 15:22 |
| - | 12 | "hou, zezhang".in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 15:28 |
| - | 23207 | (maximum maximiz\$3) near2 difference | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 15:30 |
| - | 580592 | delay | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 15:30 |
| - | 4401 | ((maximum maximiz\$3) near2 difference) and delay | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 15:30 |
| - | 21686 | omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 15:31 |
| - | 53 | ((((maximum maximiz\$3) near2 difference) and delay) and (omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 15:33 |
| - | 116403 | microphon\$3 input near2 transduc\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 15:33 |
| - | 15 | (((((maximum maximiz\$3) near2 difference) and delay) and (omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4)) and (microphon\$3 input near2 transduc\$3) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 16:11 |
| - | 8942 | compar\$3 with difference with (threshold threshold thresh adj hold) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 16:12 |
| - | 2 | (compar\$3 with difference with (threshold threshold thresh adj hold)) and 381/92.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 13:17 |
| - | 54 | (compar\$3 with difference with (threshold threshold thresh adj hold)) and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 16:13 |
| - | 26 | (compar\$3 with difference with (threshold threshold thresh adj hold)) and 381/\$.ccls. and microphon\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 16:33 |
| - | 2 | "20010028718" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 16:33 |
| - | 0 | (compar\$3 with difference with (reference)) and 381/92.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 13:17 |

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| - | 81 | (compar\$3 with difference with (reference)) and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 13:17 |
| - | 31 | (compar\$3 with difference with (reference)) and 381/\$.ccls. and (direction\$4 angle) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 13:18 |
| - | 3 | ("5727073" "5953380" "5978824").PN. | USPAT | 2004/06/06 13:20 |
| - | 376 | 381/92.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 13:53 |
| - | 696 | (front forward) with more with (back rear) and (microphon\$3 input near2 transducer) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 13:54 |
| - | 126 | ((front forward) with more with (back rear) and (microphon\$3 input near2 transducer)) and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 13:54 |
| - | 12 | ((front forward) with more with (back rear) and (microphon\$3 input near2 transducer)) and (381/92.ccls.) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 13:54 |
| - | 19 | 4752961.URPN. | USPAT | 2004/06/06 14:10 |
| - | 9 | determin\$5 with desir\$4 with (off adj axis offaxis) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:15 |
| - | 42 | determin\$5 with source with (off adj axis offaxis) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:15 |
| - | 114944 | microphon\$3 input near2 transducer | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:15 |
| - | 117039 | microphon\$3 input near2 transducer | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:15 |
| - | 1 | (determin\$5 with source with (off adj axis offaxis)) and (microphon\$3 input near2 transducer) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:26 |
| - | 108 | 381/94.7.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:26 |
| - | 62 | 381/94.7.ccls. and (phase angle) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:41 |
| - | 22 | ("4672674" "4908855" "4912767" "5121426" "5131047" "5148471" "5201006" "5239578" "5251263" "5319736" "5323458" "5335276" "5343521" "5381473" "5406622" "5444786" "5452361" "5471538" "5473702" "5481615" "5493616" "5526421").PN. | USPAT | 2004/06/06 14:35 |
| - | 35 | 4672674.URPN. | USPAT | 2004/06/06 14:39 |

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| - | 62385 | ((maximiz\$4 maximum) with difference | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:42 |
| - | 1564 | (microphon\$3 input near2 transducer) and ((maximiz\$4 maximum) with difference) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:42 |
| - | 1048 | ((microphon\$3 input near2 transducer) and ((maximiz\$4 maximum) with difference)) and (angle direction) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:43 |
| - | 651 | ((microphon\$3 input near2 transducer) and ((maximiz\$4 maximum) with difference)) and (angle direction) and phase | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:43 |
| - | 239 | ((microphon\$3 input near2 transducer) and ((maximiz\$4 maximum) with difference)) and (angle direction) and phase) and (381/\$.ccls. telephon\$2) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:49 |
| - | 27816 | angular adj orientat\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:49 |
| - | 480 | (microphon\$3 input near2 transducer) and (angular adj orientat\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:50 |
| - | 443 | (microphon\$3 input near2 transducer) and (angular adj orientat\$4) and (first and second front and back forward and rear) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:50 |
| - | 26 | ((microphon\$3 input near2 transducer) and (angular adj orientat\$4) and (first and second front and back forward and rear)) and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:10 |
| - | 2 | ("5303307" "5511130").PN. | USPAT | 2004/06/06 15:02 |
| - | 2 | 5651074.URPN. | USPAT | 2004/06/06 15:02 |
| - | 2 | 5473684.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:06 |
| - | 52 | (angular adj orientat\$4) and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:38 |
| - | 26 | (angular adj orientat\$4) and 381/\$.ccls. not (((microphon\$3 input near2 transducer) and (angular adj orientat\$4) and (first and second front and back forward and rear)) and 381/\$.ccls.) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:11 |
| - | 7124 | (user\$2 near2 (mouth lip)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:12 |
| - | 605 | (user\$2 near2 (mouth lip)) same (arrang\$4 orient\$5) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:12 |
| - | 63 | ((user\$2 near2 (mouth lip)) same (arrang\$4 orient\$5)) and 379/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:35 |

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| - | 376 | 381/92.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:36 |
| - | 50 | 381/92.ccls. and (mouth lip) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:37 |
| - | 160879 | (predetermined pre adj determined) near2 (angle direction) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:38 |
| - | 8518 | (differ differen\$3) with (predetermined pre adj determined) near2 (angle direction) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:38 |
| - | 44 | ((differ differen\$3) with (predetermined pre adj determined) near2 (angle direction)) and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:39 |
| - | 26 | "bernardi, robert".in. "burson, steven".in. "gollbach, lawrence".in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:47 |
| - | 1 | "4354059".PN. | USPAT | 2004/06/07 11:42 |
| - | 16 | 4354059.URPN. | USPAT | 2004/06/07 11:42 |
| - | 4 | ("4414433" "4703506" "5027393" "5075687").PN. | USPAT | 2004/06/07 11:50 |
| - | 15 | 5384843.URPN. | USPAT | 2004/06/07 11:51 |
| - | 6 | ("4953217" "5182774" "5251263" "5384843" "5473702" "5481615").PN. | USPAT | 2004/06/07 11:53 |
| - | 13 | ("4112430" "4333170" "4653102" "4912767" "4918732" "4932063" "5208864" "5212764" "5214707" "5293450" "5319736" "5390280" "5400409").PN. | USPAT | 2004/06/07 12:33 |
| - | 3 | ("5033082" "5131047" "5251263").PN. | USPAT | 2004/06/07 12:36 |
| - | 24 | 4741038.URPN. | USPAT | 2004/06/07 12:47 |
| - | 2 | 5384843.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 12:59 |
| - | 35736 | handset hand adj set | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 13:03 |
| - | 232480 | directional | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 13:03 |
| - | 2300 | (handset hand adj set) and directional | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 13:03 |
| - | 22 | ("4672674" "4908855" "4912767" "5121426" "5131047" "5148471" "5201006" "5239578" "5251263" "5319736" "5323458" "5335276" "5343521" "5381473" "5406622" "5444786" "5452361" "5471538" "5473702" "5481615" "5493616" "5526421").PN. | USPAT | 2004/06/07 13:05 |
| - | 6 | 4777649.URPN. | USPAT | 2004/06/07 13:23 |
| - | 6 | ("3480912" "4158750" "4357491" "4445229" "4662847" "4700392").PN. | USPAT | 2004/06/07 13:24 |

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| - | 3 | 4445229.URPN. | USPAT | 2004/06/07 13:25 |
| - | 8 | ("3116365" "3495908" "3532815" "3544715" "3567848" "3755623" "3970792" "4139734").PN. | USPAT | 2004/06/07 13:26 |
| - | 1 | "4354059".PN. | USPAT | 2004/06/07 15:43 |
| - | 21695 | omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 15:50 |
| - | 237897 | (adjust\$3 vary\$3 shift\$4) with phase | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 15:50 |
| - | 285631 | (adjust\$3 vary\$3 shift\$4) with (phase delay) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 15:51 |
| - | 180 | (omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and ((adjust\$3 vary\$3 shift\$4) with (phase delay)) and (handset hand adj set) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 15:54 |
| - | 116063 | microphone input near2 transducer | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 15:54 |
| - | 51 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and ((adjust\$3 vary\$3 shift\$4) with (phase delay)) and (handset hand adj set)) and (microphone input near2 transducer) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:14 |
| - | 26 | 381/92.ccls. and 381/94.7.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:19 |
| - | 108 | 381/94.7.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:19 |
| - | 23 | 381/94.7.ccls. and (omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:33 |
| - | 3 | ("4769847" "5233667" "5243661").PN. | USPAT | 2004/06/07 16:21 |
| - | 3 | ("4769847" "5233667" "5243661").PN. | USPAT | 2004/06/07 16:22 |
| - | 4 | 5563954.URPN. | USPAT | 2004/06/07 16:22 |
| - | 7 | ("3057960" "3109066" "5511128" "5586191" "5978490" "6005953" "6272229").PN. | USPAT | 2004/06/07 16:26 |
| - | 423 | "masuda, hiroyuki".ln. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:34 |
| - | 23 | "masuda, hiroyuki".ln. and telephone | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:37 |
| - | 1383 | adapt\$3 near delay | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:37 |
| - | 4601 | adapt\$3 near3 delay | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:37 |

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| - | 59 | (adapt\$3 near\$3 delay) and (omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and ((adjust\$3 vary\$3 shift\$4) with (phase delay)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:37 |
| - | 16 | (adapt\$3 near\$3 delay) and (omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and ((adjust\$3 vary\$3 shift\$4) with (phase delay)) and (microphone input near\$2 transducer) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:40 |
| - | 0 | 5757933.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:40 |
| - | 2 | 5757933.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 17:13 |
| - | 10 | "andrea, douglas".in. and "topf, martin".in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 18:07 |
| - | 4 | ("4414433" "4703506" "5027393" "5075687").PN. | USPAT | 2004/06/07 17:53 |
| - | 15 | 5384843.URPN. | USPAT | 2004/06/07 17:53 |
| - | 7 | 3875349.URPN. | USPAT | 2004/06/07 18:02 |
| - | 1711 | (omnidirectional nondirectional) with (directional unidirectional) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 18:08 |
| - | 90 | ((omnidirectional nondirectional) with (directional unidirectional)) and (handset hand adj set) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 18:12 |
| - | 38274 | handset hand adj set | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 16:40 |
| - | 564367 | handset hand adj set telephone | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 16:40 |
| - | 14951 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid))) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 11:20 |
| - | 15875 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid) (first second) adj order)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 17:01 |
| - | 2670 | (handset hand adj set telephone) and (((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid) (first second) adj order))) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 16:42 |
| - | 486 | (handset hand adj set telephone) same (((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid) (first second) adj order))) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 16:42 |
| - | 132 | (handset hand adj set telephone) same (((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid) (first second) adj order))) same switch\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 16:42 |

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|---|------|---|---|------------------|
| - | 47 | ("3755625" "3906431" "4070547" "4072821" "4096353" "4131760" "4198705" "4237339" "4254417" "4305141" "4308425" "4334740" "4399327" "4410770" "4414433" "4436966" "4449238" "4466117" "4485484" "4489442" "4521908" "4559642" "4653102" "4658425" "4669108" "4696043" "4703506" "4712231" "4712244" "4741038" "4752961" "4815132" "4860366" "4903247" "5058170" "5121426" "5214709" "5226087" "5243660" "5463694" "5483599" "5500903" "5506908" "5561737" "5664021" "5703957" "5737431").PN. | USPAT | 2004/06/08 16:46 |
| - | 6 | 5483599.URPN. | USPAT | 2004/06/08 16:48 |
| - | 9 | ("5483599" "5515445" "5524056" "5627799" "5757933" "5917921" "5978490" "6002776" "6101258").PN. | USPAT | 2004/06/08 16:49 |
| - | 3 | ("3542954" "4653102" "5226087").PN. | USPAT | 2004/06/08 16:51 |
| - | 19 | ("3571514" "3770911" "3798390" "3836732" "3875349" "3946168" "3975599" "4051330" "4142072" "4456795" "4622440" "4712244" "4723293" "4751738" "5029215" "5214709" "5226087" "5289544" "5524056").PN. | USPAT | 2004/06/08 16:57 |
| - | 120 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid) (first second) adj order)) and 381/92.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 17:02 |
| - | 2597 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid) (first second) adj order)) and telephone | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:17 |
| - | 140 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid) (first second) adj order)) and telephone and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 17:16 |
| - | 1 | 3794766.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 17:05 |
| - | 21 | 4131760.URPN. | USPAT | 2004/06/08 17:06 |
| - | 57 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same ((uni adj direction\$4 unidirection\$4) (cardiod cardioid) (first second) adj order)) and telephone and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:17 |
| - | 2 | ("3876843" "4142072").PN. | USPAT | 2004/06/08 17:30 |
| - | 2 | 5933510.URPN. | USPAT | 2004/06/08 17:30 |
| - | 13 | ("2950357" "3770911" "3835263" "3875349" "3983336" "4073366" "4393270" "4399327" "4703506" "5058171" "5121426" "5131046" "5214709").PN. | USPAT | 2004/06/08 17:33 |
| - | 3 | ("4334740" "4653102" "4888807").PN. | USPAT | 2004/06/08 17:36 |
| - | 15 | ("4042779" "4072821" "4258235" "4308425" "4334740" "4354059" "4412097" "4485484" "4491697" "4521908" "4559642" "4653102" "4675906" "4703506" "4757545").PN. | USPAT | 2004/06/08 17:38 |
| - | 11 | 4888807.URPN. | USPAT | 2004/06/08 17:41 |
| - | 9 | ("4195360" "4215241" "4412097" "4536887" "4559642" "4589137" "4653102" "4696043" "4888807").PN. | USPAT | 2004/06/08 18:13 |
| - | 0 | 791418.pn, | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 18:14 |

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|---|-------|---|---|------------------|
| - | 2 | 791418.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 18:15 |
| - | 10 | "791418" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 18:15 |
| - | 378 | 381/92.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 18:21 |
| - | 13 | 2336880.pn. 2516776.pn. 2535681.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 18:21 |
| - | 17 | 2336880.pn. 2516776.pn. 2535681.pn. 2632101.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 18:22 |
| - | 10 | 5757933.URPN. | USPAT | 2004/06/08 18:48 |
| - | 7 | ("4370523" "4589137" "4741038" "4802227" "4888807" "5033082" "5243661").PN. | USPAT | 2004/06/08 18:57 |
| - | 5651 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same ((uni adj direction\$4 unidirection\$4 (direction\$4 not non adj direction\$4 not omni adj direction\$4)) (cardiod cardioid) (first second) adj order)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:02 |
| - | 15875 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same (uni adj direction\$4 unidirection\$4 (direction\$4) (cardiod cardioid) (first second) adj order)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:03 |
| - | 1627 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same (uni adj direction\$4 unidirection\$4 (cardiod cardioid) (first second) adj order)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:04 |
| - | 342 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same (uni adj direction\$4 unidirection\$4 (cardiod cardioid) (first second) adj order)) same (above greater) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:04 |
| - | 86 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same (uni adj direction\$4 unidirection\$4 (cardiod cardioid) (first second) adj order)) same (above greater) same (less lesser below) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:04 |
| - | 15 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same (uni adj direction\$4 unidirection\$4 (cardiod cardioid) (first second) adj order)) same (above greater) same (less lesser below)) and (microphone input adj transducer) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:13 |
| - | 13 | ("2950357" "3770911" "3835263" "3875349" "3983336" "4073366" "4393270" "4399327" "4703506" "5058171" "5121426" "5131046" "5214709").PN. | USPAT | 2004/06/08 19:08 |
| - | 94 | 381/122.ccls. and (direction angle) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:14 |
| - | 89 | 381/122.ccls. and (direction angle) and (two pair second reference) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:17 |

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| - | 1627 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same ((uni adj direction\$4 unidirection\$4) (cardiod cardioid) (first second) adj order)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:17 |
| - | 19837 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) and ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid) (first second) adj order)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:18 |
| - | 32 | (381/122.ccls. and (direction angle) and (two pair second reference)) and (((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) and ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid) (first second) adj order))) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:18 |
| - | 27 | 4489442.URPN. | USPAT | 2004/06/08 19:19 |
| - | 1 | "4354059".PN. | USPAT | 2004/06/08 19:27 |
| - | 5 | ("5058170" "5193117" "5226087" "5524059" "5729507").PN. | USPAT | 2004/06/08 19:28 |
| - | 2 | ("2324548" "4305141").PN. | USPAT | 2004/06/08 19:28 |
| - | 24 | 381/358.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 10:09 |
| - | 159 | 381/356.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 10:39 |
| - | 6 | 2301744.URPN. | USPAT | 2004/06/10 10:17 |
| - | 21 | ("3213372" "3437758" "3496481" "3588360" "3601530" "3751602" "3755625" "3814856" "3818139" "3944736" "3947639" "3958084" "3979563" "3992584" "4006310" "4090032" "4099025" "4149032" "4198705" "4215241" "4359602").PN. | USPAT | 2004/06/10 10:32 |
| - | 46 | "3409738" "3437758" "3448217" "3497622" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 10:40 |
| - | 12 | 3409738.pn. 3437758.pn. 3448217.pn. 3497622.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 11:10 |
| - | 3 | ("2457199" "2994081" "4114157").PN. | USPAT | 2004/06/10 10:50 |
| - | 94 | 381/56.ccls. and (direction angle) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 11:11 |
| - | 116593 | microphone\$3 input near2 transduc\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 11:11 |
| - | 56 | (381/56.ccls. and (direction angle)) and (microphone\$3 input near2 transduc\$3) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 11:17 |
| - | 151 | 381/313.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 11:19 |
| - | 14966 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid))) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 11:22 |

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|---|-----|---|---|------------------|
| - | 518 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid))) same automatic\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 11:22 |
| - | 26 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) same ((uni adj direction\$4 unidirection\$4) (cardiod cardioid))) same automatic\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 11:22 |
| - | 3 | 5625684.URPN. | USPAT | 2004/06/10 11:37 |
| - | 22 | ("4672674" "4908855" "4912767" "5121426" "5131047" "5148471" "5201006" "5239578" "5251263" "5319736" "5323458" "5335276" "5343521" "5381473" "5406622" "5444786" "5452361" "5471538" "5473702" "5481615" "5493616" "5526421").PN. | USPAT | 2004/06/10 11:37 |
| - | 9 | ("4153815" "4473906" "4610024" "4631749" "4654871" "4739513" "4977600" "5105377" "5182774").PN. | USPAT | 2004/06/10 12:02 |
| - | 1 | "6272229".PN. | USPAT | 2004/06/10 12:06 |
| - | 9 | ("5483599" "5515445" "5524056" "5627799" "5757933" "5917921" "5978490" "6002776" "6101258").PN. | USPAT | 2004/06/10 12:06 |
| - | 4 | ("2950357" "3983336" "4073366" "5214709").PN. | USPAT | 2004/06/10 12:08 |
| - | 4 | ("2678967" "4354059" "4757545" "5029215").PN. | USPAT | 2004/06/10 12:08 |
| - | 4 | ("4536887" "4802227" "5473701" "5475761").PN. | USPAT | 2004/06/10 12:42 |
| - | 5 | ("4228531" "4485484" "4536887" "4559642" "4581758").PN. | USPAT | 2004/06/10 12:47 |
| - | 15 | 5473702.URPN. | USPAT | 2004/06/10 12:55 |
| - | 0 | 6320968.URPN. | USPAT | 2004/06/10 13:01 |
| - | 24 | ("4153815" "4604501" "4672674" "4736432" "4878188" "4901354" "4932063" "5033082" "5046103" "5054078" "5117461" "5138664" "5204909" "5293578" "5381473" "5398286" "5412735" "5416844" "5455779" "5473702" "5652799" "5835608" "5917921" "5953380").PN. | USPAT | 2004/06/10 13:01 |
| - | 4 | 2237298.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 13:08 |
| - | 15 | ("4042779" "4072821" "4258235" "4308425" "4334740" "4354059" "4412097" "4485484" "4491697" "4521908" "4559642" "4653102" "4675906" "4703506" "4757545").PN. | USPAT | 2004/06/10 13:46 |
| - | 16 | 4354059.URPN. | USPAT | 2004/06/10 13:50 |
| - | 7 | 3875349.URPN. | USPAT | 2004/06/10 13:57 |
| - | 2 | 5825897.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/15 11:48 |
| - | 5 | ("3951248" "4558178" "5210791" "5359647" "5422947").PN. | USPAT | 2004/06/16 10:38 |
| - | 11 | accessor\$3 with tone adj generat\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/16 10:53 |

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|---|----|--|---|------------------|
| - | 7 | accessor\$3 with tone adj generat\$3 and telephon\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/16 10:56 |
| - | 22 | accessor\$3 with ringer and telephon\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/16 10:56 |
| - | 14 | ("Re31398" "3467788" "3864532" "4157459" "4251807" "4278851" "4409588" "4413253" "4574272" "4602245" "4604606" "4728933" "4823110" "4845748").PN. | USPAT | 2004/06/16 11:01 |
| - | 2 | 5490219.URPN. | USPAT | 2004/06/16 11:07 |
| - | 5 | ("3940575" "3992584" "4489442" "4567608" "4817168").PN. | USPAT | 2004/06/16 11:11 |
| - | 4 | ("4536887" "4802227" "5473701" "5475761").PN. | USPAT | 2004/06/23 11:57 |
| - | 14 | andrea.in. and omnidirectional | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/28 01:36 |